BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUB DIVISION- WARD 7 BYATARAYANAPURA

Agency		Sri.U.Ramesh				

Name of work: Detailed estiamte for Drilling of New borewell and Providing new pipeline in ward no.07 byatarayanapura, kodigehalli Subdivision

Work order Amount:-2922139.68

PREMEASURMENTS SHEET

Sl NO	Description of work	ch	No	L	B	D	QTY	
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction							
		nos						
	Chikka siddappa layout	1					1.00	04/11/2020
	Sanjeeviningara near Church	1					1.00	04/11/2020
							2.00	
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,)							
		Rmtr						
	0-50	1*2	2	50			100.00	
3	50-100	1*2	2	50			100.00	
4	100-150	1*2	2	50			100.00	
5	150-200	1*2	2	50			100.00	
6	200-250	1*2	2	50			100.00	
7	250-300	1*2	2	50			100.00	
8	300-350	1	1	50			50.00	
9	350-400	1	1	50			50.00	

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mananagara Palike
Bangalore - 560 092

10	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baseic open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty							
		Rmtr						
		2	70				140.00	
11	Providing 250mm dia PVC Pipe 6kg/cm							
		Rmtr						
		2	18				36.00	
12	Providing and fixing Borewell Cap & Clamp Set							
		nos						
		2					2.00	
13	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by meansns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps							
		nos						
		2					2.00	
14	GI Pipe 50 mm'B' class							
		nos						
		1	360				360.00	
		1	270				270.00	
							630.00	

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15	Heavy Duty Collar 50 mm dia							
		nos						
		1	70				70.00	
		1	40				40.00	
							110.00	
16	Providing non-return valve 50 mm							
		nos						
		1	0				1.00	
		1	0				1.00	
							2.00	
17	Providing Gate Valve 50 mm							
		nos						
		1	20				20.00	
		1	16				16.00	
							36.00	

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19	Submersible Cable 1x3x6.0 Sq.mm							
	C4Pc	1	700				700	
		1	550				550	
	CP0						1250	
	18/1							
20	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6.00							
	C4Pc	1	70				70	
		1	40				40	
	CP0						110	
	18/1							
22	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975GROUP-A							
	C4Pc	1	40				40	
		1	30				30	
	CP0						70	
	18/1							
23	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975. P No. 41 / I No. 6.5.1 6Sqmm to 16 Sqmm)							
	C4Pc	1	40				40	
		1	30				30	
	CP0						70	
	18/1							
24	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.							
	C4Pc	1	35				35	
		1	25				25	
	CP0						60	
	18/1							
25	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV							
	C4Pc	1	4				4	
		1	4				4	
	CP0						8	
	18/1							

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Assistant Engineer

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26	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.							
	C+R GPO 18/1	1	1				1	
		1	1				1	
							2	
31	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications.							
	C+R GPO 18/1	1	410	0.60	0.2		49.2	
		1	100	0.60	0.2		12	
							61.2	
32	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strata by Manual Means							
	C+R GPO 18/1	1	410	0.60	0.4		98.4	
		1	100	0.60	0.4		24	
							122.4	
33	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc							
	C+R GPO 18/1	1	410				410	
		1	100				100	
							510	
34	Filling the foundations KSRRB 2100-6. Filling the foundations trenches using approved sand as per drawing and technical specifications in 250mm layers, wherever necessary watering and ramming, including cost of all materials, labour complete as per specifications							
	C+R GPO 18/1	1	410	0.60	0.25		61.5	
		1	100	0.60	0.25		15	
							76.5	

Assistant Engineer

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Assistant Executive Engineer

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Bangalore - 560 092

35	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including watering, consolidation in layers of 15 cm thick including disposing of the sunplus earth with a lead of 200 mtrs						
		Item.No: 32 →				122.4	
		Item.No: 34 →				76.5	
					Total2	45.9	

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Agency Sri.U.Ramesh

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Work order Amount:-2922139.68

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	Qty vide page no (1)					2.00	
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,)						
	0-50m					100.00	
3	50-100m					100.00	
4	100-150m					100.00	
5	150-200m					100.00	
6	200-250m					100.00	
7	250-300m					100.00	
8	300-350m					50.00	
9	350-400m					50.00	

Assistant Engineer

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Kodigehalli
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 032

10	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baseic open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty							
				Page no(2)			140.00	
11	Providing 250mm dia PVC Pipe 6kg/cm			Page no(2)				
							36.00	
12	Providing and fixing Borewell Cap & Clamp Set							
	Qty vide page no (2)						2.00	
13	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 25 stage. ATALANTA< SUGNA< CRI, KIRLOSKAR and other Equivalent Pumps							
	Qty vide page no (2)						2.00	
14	GI Pipe 50 mm'B' class							
	Qty vide page no (3)						630.00	
15	Heavy Duty Collar 50							
	Qty vide page no (3)						110.00	
16	Providing non-return valve 50 mm							
	Qty vide page no (3)						2.00	
17	Providing Gate Valve 50 mm							
	Qty vide page no (3)						36.00	
18	Supplying and Fixing Out Door Panel up to 15 HP							
		nos						
		1	1				1.00	
		1	1				1.00	
							2.00	
19	Submersible Cable 1x3x6.0 Sq.mm							
	Qty vide page no (4)						1250.00	
20	Labour charges for							
	Qty vide page no (4)						110.00	

Asstt Engg. N.D

Assistant Executive Engineer
Kodigehalli Sub Division
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Bangalore - 560 092

21	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws.							
					(4)		2.00	
22	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975GROUP-A							
					(4)		70.00	
23	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975. P No. 41 / I No. 6.5.1 6Sqmm to 16 Sqmm)							
					(4)		70.00	
24	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.							
					(4)		60.00	
25	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV							
					(4)		8.00	
26	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.							
					(4) (5)		2.00	
27	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia,							
							2	
28	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel							
							12	

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Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 5

29	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898	
		2
30	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved	
		46800
31	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications.	
	Qty vide page no (5)	61.2
32	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strata by Manual Means	
	Qty vide page no (5)	122.4
33	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation Etc	
	Qty vide page no (5)	510
34	Filling the foundations KSRRB 2100-6. Filling the foundations trenches using approved sand as per drawing and technical specifications in 250mm layers, wherever necessary watering and ramming, including cost of all materials, labour complete as per specifications	
	Qty vide page no (5)	76.5
35	Refilling the basement and pipeline treanches with secleted available earthe for	
	Qty vide page no (6)	45.9
36	Supply of Drinking Water through water tankers	1
37	Hire Charges of Tractor 40 HP including Operator and Fuel	1

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Bangalore - 560 092

Detailed measurements

38	Procurement of Water --Rs. 216.00 / Load (5000 Liters) Considering 5000 Liters cost is Rs. 108.00/Load Considering 5 Load						5	
39	Engaging Heavy Mazdoor						5	
40	Considering 3 Tractors 5 Loads/Day and for 5 Months						2250	

Assistant Engineer
AE(W4)
18/1/2024

Verified
30/01
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Assistant Engineer

18/1

Assistant Executive Engineer
Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 032